

PTO/-A820 (08-00) PTO/-A820 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Information Disclosure Statement - PTO 1449 (Modified)

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## 37 CFR 1.501 INFORMATION DISCLOSURE CITATION IN A PATENT

(use as many sheets as necessary)

Docket Number (Optional) Application Number 41575-208 10/663,194 Applicant: McMillen, Robert J. et al. Filing Date Group Art Unit 9/16/2003 3636

|                     |                |                 |     |   |       |   |   | U.S.   | PATENT DOC | JMENTS                  | ,            | <del>'</del>      |                          |
|---------------------|----------------|-----------------|-----|---|-------|---|---|--------|------------|-------------------------|--------------|-------------------|--------------------------|
| Examiner<br>Initial | Ref.           | Document Number |     |   |       |   |   |        | Date       | N                       | Class        | 6.3.1             | Filing Date If           |
| 11/1/               | AA             | +               | US  |   | 4/010 |   |   |        | 6/10/2004  | Name<br>McMillen        | Class<br>297 | Subclass<br>284.4 | Appropriate<br>12/9/2002 |
| 1 1/1 1             | AB             | -               |     |   | 3/007 |   |   |        | 01/17/2003 | Cruz Fernandes de Pinho | 297          | 284.4             | 09/20/2002               |
| UM                  | 1              | <del>  _</del>  | 1.  | _ |       |   |   |        |            | et al.                  | _            |                   |                          |
| MIC                 | AC             | 6               | 6   | 3 | 4     | 0 | 4 | 6      | 10/21/03   | Schuster                | 5            | 652               | 5/24/2002                |
|                     | AD             | 6               | 3   | 3 | 4     | 6 | 5 | 1      | 1/1/2002   | Duan et al.             | 297          | 284.4             | 3/31/2000                |
|                     | AE             | 6               | 2   | 9 | 6     | 3 | 0 | 8      | 10/2/2001  | Cosentino et al.        | 297          | 284.4             | 2/10/2000                |
|                     | AF             | 6               | 2   | 7 | 0     | 1 | 5 | 8      | 8/7/2001   | Hong                    | 297          | 284.4             | 4/20/2000                |
|                     | AG .           | 6               | 2   | 5 | 4     | 1 | 8 | 7      | 7/3/2001   | Schuster, Sr. et al.    | 297          | 284.1             | 8/24/1999                |
|                     | AH             | 6               | 2   | 5 | 4     | 1 | 8 | 6      | 7/3/2001   | Falzon                  | 297          | 284               | 7/30/1997                |
|                     | Al             | 6               | 2   | 2 | 7     | 6 | 1 | 8      | 5/8/2001   | Ligon, Sr. et al.       | 297          | 284.4             | 4/3/2000                 |
|                     | AJ             | 6               | 2   | 2 | 7     | 6 | 1 | 7      | 5/8/2001   | Von Möller              | 297          | 284.4             | 3/21/1988                |
|                     | AK             | 6               | 1   | 5 | 8     | 3 | 0 | 0      | 12/12/2000 | Klingler                | 74           | 526               | 1/5/1998                 |
|                     | AL             | 6               | 1   | 5 | 2     | 5 | 3 | 2      | 11/28/2000 | Cosentino               | 297          | 284.4             | 12/13/1999               |
|                     | AM             | 6               | 1   | 5 | 2     | 5 | 3 | ī      | 11/28/2000 | Deceuninck              | 297          | 284.4             | 8/20/1997                |
|                     | AN             | 6               | 0   | 9 | 2     | 8 | 7 | 1      | 7/25/2000  | Beaulieu                | 297          | 284.4             | 10/29/1999               |
|                     | AO             | 6               | 0   | 7 | 9     | 7 | 8 | 3      | 6/27/2000  | Schuster, Sr. et al.    | 297          | 284.4             | 2/21/1995                |
|                     | AP             | 6               | 0   | 5 | 0     | 6 | 4 | 1      | 4/18/2000  | Benson                  | 297          | 284.4             | 12/19/1997               |
|                     | AQ             | 6               | 0   | 4 | 5     | 1 | 8 | 5      | 4/4/2000   | Ligon, Sr. et al.       | 297          | 284.4             | 6/30/1998                |
|                     | AR             | 6               | 0   | 3 | 6     | 2 | 6 | 5      | 3/14/2000  | Cosentino               | 297          | 284.4             | 8/28/1998                |
|                     | AS             | 6               | 0   | 3 | 0     | 0 | 4 | 1      | 2/29/2000  | Hsiao                   | 297          | 284.4             | 3/2/1999                 |
|                     | AT             | 6               | 0   | 0 | 7     | ī | 5 | 1      | 12/28/1999 | Benson                  | 297          | 284.4             | 9/30/1998                |
|                     | ΑU             | 6               | 0   | 0 | 3     | 9 | 4 | i      | 12/21/1999 | Schuster, Sr. et al.    | 297          | 284.1             | 7/6/1998                 |
|                     | AV             | 5               | .9  | 8 | 8     | 7 | 4 | 5      | 11/23/1999 | Deceuninck              | 297          | 284.4             | 1/3/1997                 |
|                     | AW             | 5               | 9   | 8 | 4     | 4 | 0 | 7      | 11/16/1999 | Ligon, Sr. et al.       | 297          | 284.4             | 3/10/1997                |
| <del></del>         | AX             | 5               | 9   | 7 | 5     | 6 | 3 | 2      | 11/2/1999  | Ginat                   | 297          | 284.4             | 9/2/1998                 |
| _                   | AY             | 5               | 9   | 3 | 4     | 7 | 5 | 2      | 8/10/1999  | Klingler                | 297          | 284.4             | 12/14/1995               |
|                     | AZ             | 5               | 9   | 1 | 3     | 5 | 6 | 9      | 6/22/1999  | Klingler                | 297          | 284.4             | 6/16/1994                |
|                     | AAA            | 5               | 9   | 1 | 1     | 4 | 7 | 7      | 6/15/1999  | Mundell, et al.         | 297          | 284.4             | 5/29/1997                |
|                     | AAB            | 5               | 8   | 9 | 7     | 1 | 6 | 8      | 4/27/1999  | Bartelt, et al.         | 297          | 452.18            | 7/26/1996                |
| +-                  | AAC            | 5               | 8   | 8 | 4     | 9 | 6 | 8      | 3/23/1999  | Massara                 | 297          | 216.12            | 8/25/1997                |
| 1-                  | AAD            | 5               | 8   | 6 | 8     | 4 | 6 | 6      | 2/9/1999   | Massara, et al.         | 297          | 284.6             | 2/2/1996                 |
| +                   | AAE            | 5               | 8   | 5 | 7     | 7 | 4 | 3      | 1/12/1999  | Ligon, Sr. et al.       | 297          | 284.9             | 2/10/1997                |
| 1                   | AAF            | 5               | 8   | 2 | 3     | 6 | 2 | 0      | 10/20/1998 | Le Caz                  | 297          | 284.4             | 4/17/1997                |
| _                   | AAG            | 5               | 8   | 1 | 6     | 6 | 5 | 3      | 10/6/1998  | Benson                  | 297          | 284.4             | 3/17/1997                |
| 1                   | AAH            | 5               | 7   | 9 | 1     | 7 | 3 | 3      | 8/11/1998  | Van Hekken, et al.      | 297          | 284.4             | 6/20/1997                |
| MIX                 | AAI            | 5               | 7   | 7 | 5     | 7 | 7 | 3      | 7/7/1998   | Schuster, et al.        | 297          | 284.1             | 1/6/1997                 |
| F:\ST LO            | UIS\KANGG\DOC\ | 1               | I _ |   | لـــا |   |   | لــــا |            |                         |              | 407.1             | 1.0.1227                 |

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sclosure Statement - PTO 1449 (Modified)

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## 37 CFR 1.501 INFORMATION DISCLOSURE CITATION IN A PATENT

(use as many sheets as necessary)

Docket Number (Optional) Application Number 41575-192 10/349,525 Applicant McMillen, Robert J. et al. Group Art Unit Filing Date

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| Tin-R |       | ٦, | T <del>-</del> | 7   | 1 -      | <u> </u> | o | l 1      | 6000000    | Manage             | 207        | 284.4  | 5/19/1997  |
|-------|-------|----|----------------|-----|----------|----------|---|----------|------------|--------------------|------------|--------|------------|
| MC    | AAJ   | 5  | 7              | 7   | 9        | 2        | 8 | <u> </u> | 6/30/1998  | Massara            | 297<br>297 | 284.4  | 12/2/1996  |
|       | AAK   | 5  | <u> </u>       | 6   | <u> </u> | 4        |   | 1        | 6/23/1998  | Schwarzbich        |            | 284.4  | 3/24/1997  |
|       | AAL   | 5  | 7              | 6   | 2        | 3        | 9 | 7        | 6/9/1998   | Venuto, et al.     | 297        |        |            |
|       | AAM   | 5  | 7              | 5   | 8        | 9        | 2 | 5        | 6/2/1998   | Schrewe, et al.    | 297        | 284.6  | 12/2/1996  |
|       | AAN   | 5  | 7              | 1   | 8        | 4        | 7 | 6        | 2/17/1998  | De Pascal, et al.  | 297        | 284.4  | 9/20/1996  |
|       | AAO   | 5  | 7              | 0   | 4        | 6        | 8 | 7        | 1/6/1998   | Klingler           | 297        | 284.4  | 4/22/1994  |
|       | AAP   | 5  | 6              | 5   | 1        | 5        | 8 | 4        | 7/29/1997  | Chenot, et al.     | 297        | 284.4  | 4/24/1995  |
|       | AAQ   | 5  | 6              | 5   | 1        | 5        | 8 | 3        | 7/29/1997  | Klingler, et al.   | .297       | 284.4  | 9/10/1993  |
|       | AAR   | 5  | 6              | 3   | 8        | 7        | 2 | 2        | 6/17/1997  | Klingler           | 74         | 502.4  | 6/16/1994  |
|       | AAS   | 5  | 6              | 2   | 6        | 3        | 9 | 0        | 5/6/1997   | Schuster, et al.   | 297        | 284.1  | 6/7/1995   |
|       | AAT   | 5  | 6              | 0   | 9        | 3        | 9 | 4        | 3/11/1997  | Ligon, Sr., et al. | 297        | 284.4  | 2/23/1996  |
|       | AAU . | 5  | 5              | 8   | 8        | 7        | 0 | 3        | 12/31/1996 | Itou               | 297        | 284.4  | 10/12/95   |
|       | AAV   | 5  | 5              | 6   | 7        | 0        | 1 | 1        | 10/22/1996 | Sessini            | 297        | 284.4  | 5/12/1994  |
|       | AAW   | 5  | 5              | 6   | 7        | 0        | 1 | 0        | 10/22/1996 | Sparks             | 297        | 284.4  | 8/29/1994  |
|       | AAX   | 5  | 5              | 6   | 2        | 3        | 2 | 4        | 10/8/1996  | Massara, et al.    | 297        | 284.6  | 2/2/1996   |
|       | AAY   | 5  | 5              | 5   | 3        | 9        | 1 | 7        | 9/10/1996  | Adat, et al.       | 297        | 230.14 | 6/30/1994  |
|       | AAX   | 5  | 5              | 1   | 8        | 2        | 9 | 4        | 5/21/1996  | Ligon, Sr., et al. | 297        | 284.4  | 5/23/1994  |
|       | AAZ   | 5  | 4              | 9   | 8        | 0        | 6 | 3        | 3/12/1996  | Schuster, et al.   | 297        | 284.1  | 12/8/1994  |
|       | AAAA  | 5  | 4              | 7   | 4        | 3        | 5 | 8        | 12/12/1995 | Maeyaert           | 297        | 284.7  | 4/26/1993  |
|       | AAAB  | 5  | 4              | 5   | 2        | 8        | 6 | 8        | 9/26/1995  | Kanigowski         | 244        | 122 R  | 1/9/1995   |
|       | AAAC  | 5  | 4              | 4   | 9        | 2        | 1 | 9        | 9/12/1995  | Hay, et al.        | 297        | 284.4  | 1/18/1993  |
|       | AAAD  | 5  | 4              | 2   | 3        | 5        | 9 | 3        | 6/13/1995  | Nagashima          | 297        | 284.5  | 3/11/1994  |
|       | AAAE  | 5  | 3              | 9   | 7        | 1        | 6 | 4        | 3/14/1995  | Schuster           | 297        | 284.1  | 8/6/1990   |
|       | AAAF  | 5  | 3              | 8   | 5        | 5        | 3 | 1        | 1/13/1995  | Jover              | 601        | 99     | 1/17/1993  |
|       | AAAG  | 5  | 3              | 3   | 5        | 9        | 6 | 5        | 8/9/1994   | Sessini            | 297        | 284.4  | 4/9/1990   |
|       | AAAH  | 5  | 2              | 9 . | 9        | 8        | 5 | 1        | 4/5/1994   | Lin                | 297        | 284.5  | 5/19/1993  |
|       | AAAI  | 5  | 2              | 8   | 6        | 0        | 8 | 7        | 2/15/1994  | Elton              | 297        | 284.7  | 11/9/1992  |
|       | AAAJ  | 5  | 2              | 1   | 7        | 2        | 7 | 8        | 6/8/1993   | Harrison, et al.   | 297        | 284.7  | 3/13/1991  |
|       | AAAK  | 5  | 2              | 1   | 5        | 3        | 5 | 0        | 6/1/1993   | Kato               | 297        | 284.4  | 3/20/1991  |
|       | AAAL  | 5  | ı              | 9   | 7        | 7        | 8 | 0        | 3/30/1993  | Coughlin           | 297        | 284.7  | 2/20/1991  |
|       | AAAM  | 5  | ı              | 7   | 4        | 5        | 2 | 6        | 12/29/1992 | Kanigowski         | 244        | 122    | 11/27/1991 |
|       | AAAN  | 5  | 1              | 3   | 7        | 3        | 2 | 9        | 8/11/1992  | Neale              | 297        | 284    | 6/24/1991  |
|       | AAAO  | 5  | 0              | 8   | 8        | 7        | 9 | 0        | 2/18/1992  | Wainwright, et al. | 297        | 284    | 5/21/1990  |
|       | AAAP  | 5  | 0              | 7   | 6        | 6        | 4 | 3        | 12/31/1991 | Colasanti, et al.  | 297        | 284    | 8/20/1990  |
|       | AAAQ  | 5  | 0              | 5   | 0        | 9        | 3 | 0        | 9/24/1991  | Schuster, et al.   | 257        | 284    | 8/3/1990   |
|       | AAAR  | 5  | 0              | 2   | 6        | ı        | 1 | 6        | 6/25/1991  | Dal Monte          | 297        | 284    | 12/22/1989 |
|       | AAAS  | 5  | 0              | 2   | 2        | 7        | 0 | 9        | 6/11/1991  | Marchino           | 297        | 452    | 2/13/1989  |
|       | AAAT  | 5  | 0              | 0   | 5        | 9        | 0 | 4        | 4/9/1991   | Clemens, et al.    | 297        | 284    | 2/27/1989  |
| -     | AAAU  | 4  | 9              | 6   | 8        | 0        | 9 | 3        | 11/6/1990  | Dal Monte          | 297        | 284    | 12/22/1989 |
| Me    | AAAV  | 4  | 9              | 5   | 7        | 1        | 0 | 2        | 9/18/1990  | Tan, et al.        | 128        | 68     | 9/27/1988  |
|       |       |    |                |     |          | •—-      |   |          |            |                    |            |        |            |

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Disclosure Statement - PTO 1449 (Modified)

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## 37 CFR 1.501 INFORMATION DISCLOSURE CITATION IN A PATENT

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| Docket Number (Optional)<br>41575-192 | Application Number 10/349,525 |
|---------------------------------------|-------------------------------|
| Applicant McMillen, Rol               | hart I at al                  |
| Applicant Michigan, Roi               | bert b. et al.                |
| Filing Date                           | Group Art Unit                |

| AAAW 4 9 5 1 0 0 3 2 8/21/1990 Nagasaka 297 284 77/11/988  AAAAY 4 9 9 1 5 6 8 3/20/1990 Dal Monte 292 284 10/13/1988  AAAAY 4 9 9 0 9 5 5 6 8 3/20/1990 Dal Monte 292 284 10/13/1988  AAAAA 4 8 8 8 0 2 7 1 1 11/14/1989 Graves 257 284 12/23/1988  AAAAA 4 7 7 3 0 8 7 7 1 3/15/1988 Sheldon 297 236 8/14/1986  AAAAA 4 6 7 9 8 8 4 8 7/14/1987 Spierings 297 284 8/14/1986  AAAAA 4 6 7 7 9 8 8 4 8 7/14/1987 Spierings 297 284 8/14/1986  AAAAA 4 6 7 7 6 5 5 5 0 6/30/1987 Neve De Mevergnies 297 284 10/23/1986  AAAAA 4 6 3 2 4 5 5 1 12/23/1986 Naert 297 284 10/23/1986  AAAAA 4 6 6 3 2 8 6 5 12/23/1986 Naert 297 284 11/23/1984  AAAAA 4 6 6 0 1 5 1 4 1/23/1986 Ronahult, et al. 297 284 11/23/1984  AAAAA 4 6 6 0 2 8 1 9 7/23/1986 Morel 297 460 5/19/1981  AAAAA 4 6 6 0 1 5 1 4 7/23/1986 Morel 297 460 5/19/1981  AAAAA 4 5 6 6 5 1 4 0 6 1/23/1986 Hattori 297 284 16/1984  AAAAA 4 5 6 6 5 1 4 0 6 1/23/1986 Suzuki 297 284 16/1984  AAAAA 4 5 6 6 5 2 5 1 1 1/23/1986 Hattori 297 284 16/1984  AAAAA 4 5 6 6 7 0 2 8 1 1 2/23/1986 Suzuki 297 284 16/1984  AAAAA 4 5 6 6 7 0 2 8 1 1 2/23/1986 Hattori 297 284 16/1984  AAAAA 4 5 6 6 7 0 0 1 1/23/1986 Hattori 297 284 16/1984  AAAAA 4 5 6 6 7 0 0 1 1/23/1986 Hattori 297 284 16/1984  AAAAA 4 5 6 6 7 0 0 1 1/23/1986 Hattori 297 284 16/1981/1984  AAAAA 4 5 6 6 7 0 0 1 1/23/1985 Nemoto 297 284 16/1981/1981  AAAAA 4 5 6 7 0 0 9/17/1985 Nemoto 297 284 16/1981/1981  AAAAA 4 7 7 0 9 9/17/1985 Nemoto 297 284 16/1981/1981  AAAAA 4 7 7 0 9 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 7 7 0 9 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 7 7 0 9 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 7 7 0 9 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 7 7 0 9 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 7 7 0 9 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 7 1 6 6 3 1 7 8/14/1986  AAAAA 4 7 1 6 6 7 0 9 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 1 1 5 6 6 3 1 4 6 5 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 1 1 5 6 6 5 7 7 0 9/17/1985 Nemoto 297 284 12/23/1981  AAAAA 4 1 1 5 6 6 5 7 7 7 1/30/1979 Nemoto 297 284 12/23/1 |      |        |          |          |          |   |   |   |   | · · · · · · · · · · · · · · · · · · · |                     |     |     |            |
|--|------|--------|----------|----------|----------|---|---|---|---|---------------------------------------|---------------------|-----|-----|------------|
| AAAY   | MM   | AAAW · | 4        | 9        | 5        | 0 | 0 | 3 | 2 | 8/21/1990                             | Nagasaka            | 297 | 284 | 7/25/1989  |
| AAAAZ 4 8 8 8 0 2 7 1 1 11/14/1989 Graves 257 284 12/23/1988  AAAAA 4 7 3 0 8 7 1 31/51/988 Sheldon 297 230 8/14/1986  AAAAA 4 7 3 0 8 7 1 31/51/988 Sheldon 297 230 8/14/1986  AAAAAC 4 6 7 6 5 5 5 0 6/30/1987 Neve De Mevergnies 297 333 2/12/85  AAAAAD 4 6 3 2 4 5 4 12/30/1986 Naert 297 284 10/29/1984  AAAAAE 4 6 3 0 8 6 5 12/23/1986 Abs 297 284 10/29/1984  AAAAA 6 6 2 7 6 6 6 1 12/99/1986 Ronnhull, et al. 297 284 10/29/1984  AAAAA 6 6 0 0 2 8 1 9 7/29/1986 Morel 297 460 5/19/1983  AAAAAH 4 6 0 0 1 5 1 4 7/22/1986 Morel 297 284 1/6/1984  AAAAA 4 5 7 6 4 1 0 3/18/1986 Hattori 297 284 5/25/1984  AAAAA 4 5 6 5 4 0 6 1/23/1986 Hattori 297 284 5/25/1984  AAAAA 4 5 5 6 5 4 0 6 1/23/1986 Hattori 297 284 5/25/1983  AAAAA 4 5 5 6 2 5 1 1 12/31/1986 Hattori 297 284 1/19/1984  AAAAA 4 5 5 6 6 2 5 1 1 12/31/1986 Hattori 297 284 1/19/1984  AAAAA 4 5 5 6 6 2 5 1 1 12/31/1986 Hattori 297 284 1/19/1984  AAAAA 4 5 5 6 6 2 5 1 1 12/31/1986 Hattori 297 284 1/19/1983  AAAAA 4 5 5 6 6 2 5 1 1 12/31/1986 Hattori 297 284 1/19/1984  AAAAA 4 5 5 6 6 2 5 1 1 12/31/1986 Hattori 297 284 1/19/1981  AAAAA 4 5 5 6 6 2 5 1 1 12/31/1986 Hattori 297 284 1/19/1981  AAAAA 4 5 5 6 6 2 5 1 1 12/31/1985 Takagi 297 284 1/19/19/1983  AAAAA 4 5 5 5 6 6 2 5 1 1 12/31/1985 Takagi 297 284 1/19/19/1983  AAAAA 4 5 5 5 6 6 2 5 1 1 12/31/1985 Shemoto 297 452 1/2/31/1981  AAAAA 4 5 6 6 7 0 9 10/19/1982 Schuster 297 284 1/2/2/1981  AAAAA 4 6 6 7 0 9 10/19/1982 Schuster 297 284 1/2/2/1981  AAAAA 4 6 6 7 0 9 10/19/1982 Schuster 297 284 1/2/2/1981  AAAAA 4 1 6 6 6 3 1 2 2/31/1980 Armity, et al. 297 284 1/2/2/1981  AAAAA 4 1 1 5 6 6 7 0 9 10/19/1982 Schuster 297 284 1/2/2/1981  AAAAA 4 1 1 8 2 2 5 3 3 3 1/8/1980 Armity, et al. 297 284 1/2/2/1981  AAAAA 4 1 1 8 2 2 5 3 3 3 1/8/1980 Armity, et al. 297 284 1/2/2/1981  AAAAA 4 1 1 8 2 2 5 6 8 1 1 10/2/1982 Barley 297 284 1/2/2/1998  AAAAAA 4 1 1 8 8 2 5 7 7 6 8 9 10/2/1973 Schuster 297 284 1/2/1979  AAAAAA 3 7 6 2 7 6 8 8 1/2/1979 Swenson, et al. 297 284 1/2/1979  AAAAAA 3 7 6 2 7 6 8 8 1 10/2/1973 Schuster 5 2 10/8 1/2 | 1    |        | <u> </u> | ļ        | <u> </u> |   |   |   |   |                                       |                     |     |     |            |
| AAAAA 4 7 3 3 0 8 8 7 1 1 3/15/1988 Sheldon 297 230 8/14/1986  AAAAB 4 6 7 9 8 4 4 8 71/14/1987 Spierings 297 234 8/14/1986  AAAAB 4 6 7 9 8 8 4 8 71/14/1987 Spierings 297 234 8/14/1986  AAAAB 4 6 7 6 5 5 5 0 6/30/1987 Neve De Mevergnies 297 234 10/29/1984  AAAAB 4 6 3 2 4 5 4 12/30/1986 Naer 297 234 10/29/1984  AAAAB 4 6 3 0 8 6 5 12/23/1986 Ahs 297 234 11/23/1984  AAAAB 4 6 0 2 7 6 6 6 1 12/9/1986 Morel 297 234 11/23/1984  AAAAB 4 6 0 1 5 1 4 7/22/1986 Morel 297 234 16/1984  AAAAB 4 6 0 1 5 1 4 7/22/1986 Meiller 297 234 16/1984  AAAAB 4 5 7 6 4 1 0 0 3/18/1986 Hattori 297 234 16/1984  AAAAB 4 5 6 4 2 3 5 1/4/1986 Suzuki 297 234 16/1984  AAAAB 4 5 6 4 2 3 5 1/4/1986 Suzuki 297 234 3/22/1983  AAAAB 4 5 6 4 2 3 5 1/4/1986 Suzuki 297 234 3/22/1983  AAAAB 4 5 6 4 2 3 5 1/4/1986 Nemoto 297 234 10/18/1983  AAAAB 4 5 6 4 2 3 5 1/4/1986 Nemoto 297 234 10/18/1983  AAAAB 4 5 5 5 6 2 5 1 12/3/1985 Takagi 297 234 10/18/1983  AAAAB 4 5 5 5 6 2 5 1 12/3/1985 Nemoto 297 452 2/23/1984  AAAAB 4 5 5 5 6 2 5 1 12/3/1985 Nemoto 297 452 2/23/1984  AAAAB 4 5 5 5 6 2 5 1 5 2/14/1986 Schwarz 297 234 8/15/1983  AAAAB 4 5 6 4 7 0 9 1/16/1985 Nemoto 297 452 2/23/1984  AAAAB 4 4 6 5 3 1 7 8 8/14/1984 Schwarz 297 234 1/22/1981  AAAAB 4 5 5 5 6 6 6 3 1 7 8 8/14/1984 Schwarz 297 234 1/22/1981  AAAAB 4 5 6 6 6 3 1 7 2/21/1985 Morgenstern, et al. 297 234 1/22/1981  AAAAB 4 1 5 6 6 6 3 1 7 2/21/1982 Schuster 297 234 1/22/1981  AAAAB 4 1 1 6 6 6 3 1 7 2/21/1982 Schuster 297 234 1/22/1981  AAAAB 4 1 1 6 6 6 3 1 1 2/3/1982 Lenz, et al. 297 234 1/22/1981  AAAAB 4 1 1 6 6 6 3 1 1 2/3/1982 Schuster 297 234 1/22/1918  AAAAB 4 1 1 6 6 6 3 1 1 2/3/1982 Schuster 297 234 1/22/1918  AAAAB 4 1 1 6 6 6 3 1 1 2/3/1982 Schuster 297 234 1/22/1918  AAAAB 4 1 1 6 6 6 3 1 1 2/3/1982 Schuster 297 234 1/2/19198  AAAAB 4 1 1 6 6 6 8 1 1 2/3/1979 Swenson, et al. 297 234 1/2/191980  AAAAB 4 1 1 6 6 6 8 1 1 2/3/1979 Swenson, et al. 297 234 1/2/191980  AAAAB 3 7 6 2 7 7 6 8 9 10/2/1973 Schuster 52 108 12/19/1970  AAAAB 3 7 6 2 7 7 6 8 1 1/20/1970 Schuster, W. 52 98 4/10 |      |        | 4        | <u> </u> | <u> </u> |   |   |   | 8 |                                       | <u></u>             |     |     |            |
| AAAAB 4 6 7 9 8 4 8 7/14/1987 Spierings 297 284 8/14/1986  AAAAC 4 6 7 6 5 5 0 6/30/1987 Neve De Mevergnies 297 333 2/12/85  AAAAAB 4 6 3 0 2 4 5 4 12/30/1986 Naert 297 284 10/29/1984  AAAAAF 4 6 6 2 7 6 6 1 12/9/1986 Ronnhult, et al. 297 284 1/12/31/1986  AAAAAF 4 6 6 0 2 8 1 9 7/29/1986 Morel 297 460 5/19/1981  AAAAAB 4 6 6 0 1 5 1 4 7/22/1986 Morel 297 460 5/19/1983  AAAAAB 4 5 7 6 4 1 0 3/18/1986 Hattori 297 284 1/6/1984  AAAAAB 4 5 7 6 4 1 0 3/18/1986 Hattori 297 284 1/6/1984  AAAAAB 4 5 5 6 4 1 0 3/18/1986 Hattori 297 284 3/22/1985  AAAAAB 4 5 5 6 2 5 1 12/31/1986 Suzuki 297 284 1/6/1984  AAAAAB 4 5 5 6 4 2 3 5 1/14/1986 Suzuki 297 284 1/6/1984  AAAAAB 4 5 5 6 2 5 1 12/31/1985 Nemoto 297 284 1/19/1984  AAAAAB 4 5 5 6 2 5 1 1 2/3/1985 Nemoto 297 452 2/23/1984  AAAAAB 4 5 5 6 1 4 0 11/26/1985 Nemoto 297 452 2/23/1984  AAAAAB 4 5 5 5 1 4 0 11/26/1985 Nemoto 297 284 1/22/1981  AAAAAB 4 5 5 6 3 1 7 8/14/1984 Schwarz 297 284 1/22/1981  AAAAAB 4 5 5 6 3 1 7 8/14/1984 Schwarz 297 284 1/22/1981  AAAAAB 4 5 5 5 1 4 0 11/26/1985 Nemoto 297 284 1/22/1981  AAAAAB 4 4 5 5 2 4 8 5 6/5/1984 Schwarz 297 284 1/22/1981  AAAAAB 4 4 6 5 3 3 1 7 8/14/1984 Schwarz 297 284 1/22/1981  AAAAAB 4 4 6 5 2 4 8 5 6/5/1984 Schwarz 297 284 1/22/1981  AAAAAB 4 4 6 5 2 7 6 9 10/19/1982 Schuster 297 284 1/22/1981  AAAAAB 4 4 6 5 2 8 8 1 10/20/1981 Gregory 297 284 1/22/1979  AAAAAB 4 4 6 5 2 7 6 9 10/29/1980 Amdt, et al. 297 284 1/22/1979  AAAAAB 4 1 8 2 5 3 3 1 8/19/1980 Amdt, et al. 297 284 1/2/19/1980  AAAAAB 4 1 8 2 5 3 3 18/1980 Amdt, et al. 297 284 1/2/19/1980  AAAAAB 4 1 8 2 5 3 3 1 8/19/199 Swenson, et al. 297 284 1/2/19/1980  AAAAAB 4 1 8 2 5 3 3 18/19/199 Swenson, et al. 297 284 1/2/19/1980  AAAAAB 3 7 6 2 7 6 9 10/2/1973 Schuster 52 108 1/2/19/1980  AAAAAB 3 7 6 2 7 6 9 10/2/1973 Schuster 52 108 1/2/19/1970  AAAAAB 3 7 7 8 2 9 7 6 8 2/3/1970 Schuster, W. 5 351 1/2/2/1968  AAAAAB 3 7 7 8 2 9 7 6 8 2/3/1970 Schuster, W. 5 2 98 4/10/1968  AAAAAB 3 7 7 8 2 9 7 6 8 2/3/1973 Schuster, W. 5 2 98 4/10/1968  AAAAAB 3 7 7 8 2 9 7 6 8 2/3/19 |      | AAAZ   | 4        | <u> </u> |          |   | 2 | 7 | 1 | l                                     |                     |     |     |            |
| AAAAC 4 6 7 6 5 5 0 6/30/1987 Neve De Mevergnies 297 353 2/12/85  AAAAC 4 6 3 2 4 5 4 12/30/1986 Naert 297 284 10/29/1984  AAAAC 4 6 3 0 8 6 5 12/23/1986 Abs 297 284 11/23/1984  AAAAC 4 6 0 2 8 1 9 7/25/1986 Morel 297 460 5/19/1981  AAAAC 4 6 0 0 1 5 1 4 7/22/1986 Morel 297 460 5/19/1981  AAAAC 4 6 0 0 1 5 1 4 7/22/1986 Morel 297 284 1/6/1984  AAAAC 4 6 0 1 5 1 4 7/22/1986 Morel 297 284 1/6/1984  AAAAC 4 5 7 6 4 1 0 3/18/1986 Hattori 297 284 5/25/1983  AAAAAL 4 5 7 6 4 1 0 3/18/1986 Hattori 297 284 5/25/1983  AAAAAL 4 5 6 5 4 0 6 1/21/1986 Suzuki 297 284 3/22/1985  AAAAAC 4 5 6 5 4 0 6 1/21/1986 Hattori 297 284 1/6/1985  AAAAAC 4 5 6 5 4 0 6 1/21/1986 Hattori 297 284 1/19/1984  AAAAAC 4 5 6 5 4 0 6 1/21/1986 Hattori 297 284 1/19/1984  AAAAAC 4 5 6 5 2 5 1 12/3/1985 Hattori 297 284 1/19/1984  AAAAAC 4 5 6 5 2 5 1 12/3/1985 Hattori 297 284 1/19/1984  AAAAAC 4 5 5 5 6 2 5 1 12/3/1985 Takagi 297 284 1/19/1983  AAAAAC 4 4 5 5 5 6 2 5 1 12/3/1985 Nemoto 297 452 2/23/1984  AAAAAC 4 4 6 5 3 1 7 8 1/4/1984 Schwarz 297 284 3/15/1983  AAAAAC 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 3/15/1983  AAAAAC 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 1/22/1981  AAAAAC 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 5/26/1981  AAAAAC 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 5/26/1981  AAAAAC 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 5/26/1981  AAAAAC 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 1/22/1981  AAAAAC 4 1 8 9 7 5 1 5/22/1982 Barley 297 284 1/21/1980  AAAAAC 4 1 8 2 5 6 5 8 1 10/20/1981 Gregory 297 284 1/21/1980  AAAAAC 4 1 8 2 5 6 5 4 10/29/1980 Armd, et al. 297 284 1/21/1979  AAAAAC 4 1 5 6 5 4 1 10/29/1980 Armd, et al. 297 284 1/21/1979  AAAAAC 4 1 5 6 5 4 1 10/29/1980 Armd, et al. 297 284 1/21/1979  AAAAAC 3 7 6 2 7 6 8 1/29/1979 Sheldon 297 284 1/21/19790  AAAAAC 3 7 6 2 7 6 8 2/3/1970 Schuster 5 29 284 1/21/19790  AAAAAC 3 7 9 2 7 6 8 2/3/1970 Schuster 5 2 108 1/21/19790  AAAAAC 3 7 9 0 0 0 8 4 1/20/1970 Schuster 5 2 108 1/21/19790  AAAAAC 3 7 9 0 0 0 8 4 1/20/1970 Schuster, W. 5 351 1/22/19790  AAAAAC 2 8 4 3 1 9 0 0 0 8 8 4 1/20/1970 |      | AAAA   | 4        | 7        | 3        | 0 | 8 | 7 | 1 | 3/15/1988                             | Sheldon             | 297 | 230 | 8/14/1986  |
| AAAAB 4 6 3 2 4 5 4 1230/1986 Naert 297 284 10/29/1984  AAAAE 4 6 3 0 8 6 5 12/23/1986 Abs 297 284 11/23/1984  AAAAF 4 6 2 7 6 6 1 129/1986 Ronnhult, et al. 297 284 17/23/1984  AAAAA 4 6 0 1 8 1 9 7/29/1986 Morel 297 460 5/19/1983  AAAAA 4 6 0 1 5 1 4 7/22/1986 Meiller 297 284 1/6/1984  AAAAA 4 6 0 1 5 1 4 7/22/1986 Meiller 297 284 1/6/1984  AAAAA 4 5 6 0 1 5 1 4 7/22/1986 Meiller 297 284 1/6/1984  AAAAA 4 5 6 5 4 0 6 12/1986 Suzuki 297 284 5/25/1983  AAAAA 4 5 6 5 4 0 6 1/21/1986 Suzuki 297 284 3/22/1985  AAAAA 4 5 6 2 5 1 12/3/1985 Takagi 297 284 11/9/1984  AAAAA 4 5 5 5 6 2 5 1 12/3/1985 Takagi 297 284 11/9/1984  AAAAA 4 5 6 7 0 9/17/1985 Nemoto 297 452 2/23/1984  AAAAA 4 5 6 5 3 1 7 8/14/1984 Schwarz 297 284 11/29/1983  AAAAA 4 5 6 5 3 1 7 8/14/1984 Schwarz 297 284 11/29/1983  AAAAA 4 4 5 5 5 6 2 5 1 5/29/1984 Schwarz 297 284 11/22/1981  AAAAA 4 4 5 5 2 4 8 5 6/5/1984 Schwarz 297 284 1/22/1981  AAAAA 4 4 5 5 2 4 8 5 6/5/1984 Schwarz 297 284 1/22/1981  AAAAA 4 4 5 5 2 4 8 5 6/5/1984 Schwarz 297 284 1/22/1981  AAAAA 4 3 5 0 0 1 0 6/28/1983 Wisniewski, et al. 297 284 1/22/1981  AAAAA 4 3 5 0 0 1 0 10/19/1982 Schwarz 297 284 1/22/1981  AAAAA 4 3 5 0 0 2 1 0 6/28/1983 Wisniewski, et al. 297 284 1/22/1981  AAAAA 4 3 1 0 6 3 7 2/2/1982 Barley 297 284 1/26/1979  AAAAA 4 1 5 5 3 2 9 5 6 8 1 10/20/1981 Gregory 297 284 1/26/1979  AAAAA 4 1 5 5 3 2 9 5 6 8 1 10/20/1981 Gregory 297 284 1/26/1979  AAAAA 4 1 5 5 3 2 9 5 6 8 1 10/20/1981 Gregory 297 284 1/26/1979  AAAAA 4 1 5 5 3 2 9 3 5/8/1979 Sheldon 297 284 1/26/1979  AAAAA 4 1 5 5 3 2 9 7 6 8 2/3/1979 Sheldon 297 284 1/26/1979  AAAAAA 3 7 6 2 7 6 8 2/3/1970 Schwster 52 99 8 4/10/1968  AAAAAA 3 7 6 2 7 6 8 2/3/1970 Schwster 52 99 8 4/10/1968  AAAAAA 3 7 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 1/16/1971  AAAAAA 3 1 9 0 0 0 8 4 1/20/1970 Schwster, W. 5 3 351 1/22/1968  AAAAAA 3 1 9 0 0 0 8 4 1/20/1970 Schwster, W. 5 3 351 1/22/1968  AAAAAA 3 1 9 0 0 0 8 8 4 1/20/1970 Schwster, W. 5 3 351 1/22/1968  AAAAAA 3 1 9 0 0 0 8 6 1/20/1979 Schwster, W. 5 3 351 1/22/1968  AAAAAA 2 |      | AAAAB  | 4        | 6        | 7_       | 9 | 8 | 4 | 8 | 7/14/1987                             | Spierings           | 297 | 284 | 8/14/1986  |
| AAAAE 4 6 3 0 0 8 6 5 12/23/1986 Ahs 297 284 11/23/1984  AAAAF 4 6 0 2 7 6 6 1 12/91/86 Ronnhult, et al. 297 284 7/25/1984  AAAAA 4 6 0 2 8 1 9 7/29/1986 Morel 297 460 5/19/1983  AAAAAH 4 6 0 0 1 5 1 4 7/22/1986 Meiller 297 284 1/6/1984  AAAAA 4 5 7 6 4 1 0 3/18/1986 Hattori 297 284 3/25/1983  AAAAA 4 5 5 6 5 4 0 6 1/21/1986 Suzuki 297 284 3/22/1985  AAAAA 4 5 5 6 5 4 0 6 1/21/1986 Hattori 297 284 3/22/1985  AAAAA 4 5 5 6 5 5 4 0 6 1/21/1986 Hattori 297 284 3/22/1985  AAAAA 4 5 5 6 5 5 1 1/23/1985 Hattori 297 284 3/22/1985  AAAAA 4 5 5 6 2 5 1 1/23/1985 Hattori 297 284 11/9/1984  AAAAA 4 5 5 6 2 5 1 1/23/1985 Hattori 297 284 11/9/1984  AAAAA 4 5 5 6 2 5 1 1/23/1985 Hattori 297 284 11/9/1984  AAAAA 4 5 5 6 2 5 1 1/23/1985 Hattori 297 284 10/18/1984  AAAAA 4 5 5 6 2 5 1 1/23/1985 Hattori 297 284 10/18/1984  AAAAA 4 5 5 6 2 5 1 1/23/1985 Hattori 297 284 10/18/1983  AAAAA 4 5 5 6 7 0 9/17/1985 Morgenstern, et al. 297 284 8/15/1983  AAAAA 4 5 5 2 4 8 5 6/5/1984 Schuster 297 284 1/22/1981  AAAAA 4 4 6 6 5 3 1 7 8/14/1984 Schuster 297 284 1/22/1981  AAAAA 4 4 6 6 5 3 1 7 8/14/1984 Schuster 297 284 1/22/1981  AAAAA 4 4 7 9 7 5 1 5/22/1984 Murphy, et al. 297 284 6/22/1979  AAAAA 4 3 9 0 0 2 1 0 6/28/1983 Wisniewski, et al. 297 284 6/22/1979  AAAAA 4 3 3 5 4 7 0 9 10/19/1982 Schuster 297 284 1/2/6/1979  AAAAA 4 1 8 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 1/2/6/1979  AAAAA 4 1 8 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 1/2/6/1979  AAAAA 4 1 8 5 6 5 7 7 1/30/1979 Swenson, et al. 297 284 1/2/6/1979  AAAAA 4 1 8 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 1/2/6/1979  AAAAA 4 1 8 5 6 5 7 7 1/30/1979 Schuster 5 2 108 1/2/14/1970  AAAAAA 3 7 6 2 7 6 8 12/19/1970 Schuster 5 2 108 1/2/14/1970  AAAAAA 3 7 6 2 7 6 8 2/3/1970 Schuster 5 2 108 1/2/14/1970  AAAAAA 3 7 6 2 7 6 8 2/3/1970 Schuster 5 2 108 1/2/14/1970  AAAAAA 3 7 7 6 2 7 6 8 2/3/1970 Schuster, W. 5 351 1/2/2/1968  AAAAAA 3 7 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 1/2/6/1979  AAAAAAA 3 7 9 0 0 0 8 4 1/2/6/1973 Schuster 5 2 108 1/2/14/1970  AAAAAAA 2 1 1 5 6 5 7 7 |      | AAAAC  | 4        | 6        | 7        | 6 | 5 | 5 | 0 | 6/30/1987                             | Neve De Mevergnies  | 297 | 353 | 2/12/85    |
| AAAAF 4 6 2 7 6 6 1 12/9/1986 Ronnhult, et al. 297 284 7/25/1984  AAAAAF 4 6 0 2 8 1 9 7/29/1986 Morel 297 460 5/19/1983  AAAAH 4 6 0 1 5 1 4 7/22/1986 Meiller 297 284 1/6/1984  AAAAH 4 5 7 6 4 1 0 3/18/1986 Hattori 297 284 1/6/1984  AAAAA 4 5 7 6 6 4 1 0 0 3/18/1986 Hattori 297 284 3/22/1985  AAAAA 4 5 5 6 5 4 0 6 1/21/1986 Suzuki 297 284 3/22/1985  AAAAA 4 5 5 6 4 2 3 5 1/14/1986 Hatsutta, et al. 297 284 11/9/1984  AAAAA 4 5 5 6 6 2 5 1 12/3/1985 Takagi 297 284 10/18/1984  AAAAA 4 5 5 5 6 2 5 1 12/3/1985 Nemoto 297 452 2/23/1984  AAAAA 4 5 5 5 5 1 4 0 11/26/1985 Nemoto 297 452 2/23/1984  AAAAA 4 5 5 6 7 0 9/17/1985 Morgenstern, et al. 297 284 8/15/1983  AAAAA 4 5 5 6 7 0 9/17/1985 Morgenstern, et al. 297 284 8/15/1983  AAAAA 4 5 5 5 5 1 1 4 0 11/26/1985 Nemoto 297 452 2/23/1984  AAAAA 4 5 5 6 7 0 9/17/1985 Morgenstern, et al. 297 284 8/15/1983  AAAAA 4 7 5 7 6 0 9/17/1985 Morgenstern, et al. 297 284 1/22/1981  AAAAA 4 4 7 5 7 5 1 5/22/1984 Murphy, et al. 297 284 1/22/1981  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 4 7 7 0 9 10/19/1982 Schuster 297 284 1/2/19/1980  AAAAA 3 7 7 6 2 7 7 6 8 10/2/1979 Schuster 52 108 12/14/1970  AAAAA 3 7 7 6 2 7 7 6 8 10/2/1979 Schuster 52 108 12/14/1970  AAAAAA 3 7 7 6 2 7 6 8 8 2/3/1970 Schuster, W. 5 351 1/2/2/1968  AAAAAA 3 7 7 6 2 7 6 8 8 2/3/1970 Schuster, W. 5 351 1/2/2/1968  AAAA |      | AAAAD  | 4        | 6        | 3        | 2 | 4 | 5 | 4 | 12/30/1986                            | Naert               | 297 | 284 | 10/29/1984 |
| AAAAG  |      | AAAAE  | 4        | 6        | 3        | 0 | 8 | 6 | 5 | 12/23/1986                            | Ahs                 | 297 | 284 | 11/23/1984 |
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| AAAAI  |      | AAAAG  | 4        | 6        | 0        | 2 | 8 | ı | 9 | 7/29/1986                             | Morel               | 297 | 460 | 5/19/1983  |
| AAAAJ 4 5 6 6 5 4 0 6 1/21/1986 Suzuki 297 284 3/22/1985  AAAAK 4 5 6 4 2 3 5 1/14/1986 Hatsutta, et al. 297 284 11/9/1984  AAAAL 4 5 5 6 4 2 5 1 12/3/1985 Takagi 297 284 10/18/1983  AAAAAM 4 5 5 5 1 4 0 11/26/1985 Nemoto 297 452 2/23/1984  AAAAAN 4 5 5 4 1 6 7 0 9/17/1985 Morgenstern, et al. 297 284 8/15/1983  AAAAAO 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 1/22/1981  AAAAO 4 4 5 2 4 8 5 6/5/1984 Schuster 297 284 1/22/1981  AAAAAO 4 4 4 5 2 4 8 5 5/5/1984 Murphy, et al. 297 284 1/22/1981  AAAAAR 4 3 9 0 2 1 1 0 6/28/1983 Wisniewski, et al. 297 452 1/21/5/1980  AAAAA 4 3 5 4 7 0 9 10/19/1982 Schuster 297 284 6/22/1979  AAAAA 4 3 1 6 6 3 1 2/23/1982 Lenz, et al. 297 284 1/2/39/1999  AAAAAV 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 1/1/31/979  AAAAAV 4 1 8 2 5 3 3 1 1/8/1980 Armd, et al. 297 284 1/1/31/979  AAAAAV 4 1 8 2 5 3 3 1/8/1980 Armd, et al. 297 284 1/2/6/1978  AAAAAV 4 1 5 6 5 7 7 1/30/1979 Swenson, et al. 297 284 1/2/6/1979  AAAAAV 4 1 5 6 5 7 7 1/30/1979 Schuster 297 284 1/2/6/1979  AAAAAA 4 1 5 6 5 7 7 1/30/1979 Schuster 297 284 1/2/6/1979  AAAAAA 4 1 5 6 5 7 7 1/30/1979 Schuster 297 284 1/2/6/1979  AAAAAA 4 1 5 6 5 7 7 1/30/1979 Schuster 297 284 1/2/6/1979  AAAAAA 4 1 5 6 5 7 7 1/30/1979 Schuster 297 284 1/2/6/1979  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 1/2/6/1971  AAAAAA 3 7 6 2 7 6 8 10/2/1973 Schuster 52 108 1/2/4/1970  AAAAAA 3 7 8 2 9 9 4 4 6/5 1 6/6/8/1970 Schuster, W. 5 351 1/2/1968  AAAAAA 3 3 7 8 2 9 9 7/31/1970 Schuster, W. 5 351 1/2/1968  AAAAAA 3 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 3 3 7 8 2 9 9 7/31/1956 Endresen, E. 155 182 1/25/1956  |      | AAAAH  | 4        | 6        | 0        | ı | 5 | ı | 4 | 7/22/1986                             | Meiller             | 297 | 284 | 1/6/1984   |
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| AAAAL  |      | AAAAJ  | 4        | 5        | 6        | 5 | 4 | 0 | 6 | 1/21/1986                             | Suzuki              | 297 | 284 | 3/22/1985  |
| AAAAM  |      | AAAAK  | 4        | 5        | 6        | 4 | 2 | 3 | 5 | 1/14/1986                             | Hatsutta, et al.    | 297 | 284 | 11/9/1984  |
| AAAAN 4 5 4 1 6 7 0 9/17/1985 Morgenstern, et al. 297 284 8/15/1983  AAAAO 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 1/22/1981  AAAAP 4 4 5 2 4 8 5 6/5/1984 Schuster 297 284 1/2/3/1981  AAAAQ 4 4 4 9 7 5 1 5/22/1984 Murphy, et al. 297 452 12/15/1980  AAAAAR 4 3 9 0 2 1 0 6/28/1983 Wisniewski, et al. 297 452 12/15/1980  AAAAA 4 3 1 6 6 3 1 2/23/1982 Schuster 297 284 6/22/1979  AAAAA 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 11/3/1979  AAAAAW 4 1 8 2 5 3 3 1/8/1980 Armdt, et al. 297 284 2/19/1980  AAAAW 4 1 8 2 5 3 3 1/8/1980 Armdt, et al. 297 284 1/22/6/1978  AAAAW 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAW 4 1 5 6 5 7 7 1/30/1979 Swenson, et al. 297 284 9/6/1977  AAAAAW 4 1 5 6 5 7 7 1/30/1979 Sperson 74 479 11/10/1976  AAAAAW 4 1 5 6 5 7 7 1/30/1979 Sperson 74 479 11/10/1976  AAAAAW 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAW 3 7 6 2 7 6 8 2/3/1970 Schuster 52 108 12/14/1970  AAAAAW 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAW 2 9 1 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954  |      | AAAAL  | 4        | 5        | 5        | 6 | 2 | 5 | 1 | 12/3/1985                             | Takagi              | 297 | 284 | 10/18/1983 |
| AAAAO 4 4 6 5 3 1 7 8/14/1984 Schwarz 297 284 1/22/1981  AAAAP 4 4 5 2 4 8 5 6/5/1984 Schuster 297 284 1/2/3/1981  AAAAAQ 4 4 4 9 7 5 1 5/22/1984 Murphy, et al. 297 284 5/26/1981  AAAAAR 4 3 9 0 2 1 0 6/28/1983 Wisniewski, et al. 297 452 12/15/1980  AAAAAR 4 3 5 4 7 0 9 10/19/1982 Schuster 297 284 6/22/1979  AAAAAT 4 3 1 6 6 3 1 2/23/1982 Lenz, et al. 297 284 12/6/1979  AAAAAU 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 11/13/1979  AAAAAW 4 1 8 2 5 3 3 18/8/1980 Amdt, et al. 297 284 2/19/1980  AAAAAW 4 1 8 2 5 3 3 18/8/1980 Amdt, et al. 297 284 12/26/1978  AAAAAW 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAAW 4 1 5 6 5 7 7 13/30/1979 Sheldon 297 284 9/6/1977  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 6/30/1954   |      | AAAAM  | 4        | 5        | 5        | 5 | 1 | 4 | 0 | 11/26/1985                            | Nemoto              | 297 | 452 | 2/23/1984  |
| AAAAP 4 4 5 2 4 8 5 6/5/1984 Schuster 297 284 12/23/1981  AAAAQ 4 4 4 9 7 5 1 5/22/1984 Murphy, et al. 297 284 5/26/1981  AAAAR 4 3 9 0 2 1 0 6/28/1983 Wisniewski, et al. 297 452 12/15/1980  AAAAR 4 3 5 4 7 0 9 10/19/1982 Schuster 297 284 6/22/1979  AAAAAT 4 3 1 6 6 3 1 2/23/1982 Lenz, et al. 297 284 12/6/1979  AAAAAU 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 11/13/1979  AAAAAW 4 2 9 5 6 8 1 10/20/1981 Gregory 297 284 2/19/1980  AAAAAW 4 1 8 2 5 3 3 1/8/1980 Amdt, et al. 297 284 12/26/1978  AAAAAW 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 12/26/1978  AAAAAY 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAAY 4 1 5 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAA 3 7 6 2 7 6 8 2/3/1970 Schuster, W. 52 98 4/10/1968  AAAAAA 3 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAA 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 1/25/1956  |      | AAAAN  | 4        | 5        | 4        | 1 | 6 | 7 | 0 | 9/17/1985                             | Morgenstern, et al. | 297 | 284 | 8/15/1983  |
| AAAAQ 4 4 4 9 7 5 1 5/22/1984 Murphy, et al. 297 284 5/26/1981  AAAAR 4 3 9 0 2 1 0 6/28/1983 Wisniewski, et al. 297 452 12/15/1980  AAAAR 4 3 5 4 7 0 9 10/19/1982 Schuster 297 284 6/22/1979  AAAAT 4 3 1 6 6 3 1 2/23/1982 Lenz, et al. 297 284 12/6/1979  AAAAU 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 11/13/1979  AAAAV 4 2 9 5 6 8 1 10/20/1981 Gregory 297 284 2/19/1980  AAAAW 4 1 8 2 5 3 3 1/8/1980 Arndt, et al: 297 284 12/26/1978  AAAAX 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 12/26/1978  AAAAX 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAX 4 1 5 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAA 3 7 6 2 7 6 8 2/3/1970 Schuster 52 108 12/14/1970  AAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAA 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954  |      | AAAAO  | 4        | 4        | 6        | 5 | 3 | 1 | 7 | 8/14/1984                             | Schwarz             | 297 | 284 | 1/22/1981  |
| AAAAR 4 3 9 0 2 1 0 6/28/1983 Wisniewski, et al. 297 452 12/15/1980  AAAAR 4 3 5 4 7 0 9 10/19/1982 Schuster 297 284 6/22/1979  AAAAR 4 3 1 6 6 3 1 2/23/1982 Lenz, et al. 297 284 12/6/1979  AAAAR 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 11/13/1979  AAAAR 4 2 9 5 6 8 1 10/20/1981 Gregory 297 284 2/19/1980  AAAAR 4 1 8 2 5 3 3 18/1980 Arndt, et al. 297 284 12/26/1978  AAAAR 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAR 4 1 5 3 2 9 3 5/8/1979 Sheldon 297 284 9/6/1977  AAAAR 4 1 1 3 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAR 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAR 3 7 7 2 4 1 4 4 4/3/1973 Schuster 52 108 12/14/1970  AAAAAR 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAR 2 9 4 2 6 5 1 6/28/1960 Binding, K.W. 155 131 11/12/1957  AAAAAR 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAR 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954   |      | AAAAP  | 4        | 4        | 5        | 2 | 4 | 8 | 5 | 6/5/1984                              | Schuster            | 297 | 284 | 12/23/1981 |
| AAAAS 4 3 5 4 7 0 9 10/19/1982 Schuster 297 284 6/22/1979  AAAAT 4 3 1 6 6 3 1 2/23/1982 Lenz, et al. 297 284 12/6/1979  AAAAU 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 11/13/1979  AAAAW 4 2 9 5 6 8 1 10/20/1981 Gregory 297 284 2/19/1980  AAAAW 4 1 8 2 5 3 3 1/8/1980 Arndt, et al. 297 284 12/26/1978  AAAAX 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAX 4 1 5 3 2 9 3 5/8/1979 Sheldon 297 284 9/6/1977  AAAAAX 4 1 3 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAA 3 7 6 2 7 6 8 10/2/1973 Schuster 52 108 12/14/1970  AAAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1968  AAAAAA 2 9 4 2 6 5 1 6/28/1960 Binding, K.W. 155 131 11/12/1957  AAAAAA 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 6/30/1954   |      | AAAAQ  | 4        | 4        | 4        | 9 | 7 | 5 | 1 | 5/22/1984                             | Murphy, et al.      | 297 | 284 | 5/26/1981  |
| AAAAT 4 3 1 6 6 3 1 2/23/1982 Lenz, et al. 297 284 12/6/1979  AAAAU 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 11/13/1979  AAAAV 4 2 9 5 6 8 1 10/20/1981 Gregory 297 284 2/19/1980  AAAAW 4 1 8 2 5 3 3 1/8/1980 Armdt, et al: 297 284 12/26/1978  AAAAX 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAX 4 1 5 3 2 9 3 5/8/1979 Sheldon 297 284 3/20/1978  AAAAX 4 1 5 3 2 9 3 5/8/1979 Sheldon 297 284 9/6/1977  AAAAX 4 1 3 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAA 3 7 6 2 7 6 8 2/3/1970 Schuster 52 108 12/14/1970  AAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAA 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954   |      | AAAAR  | 4        | 3        | 9        | 0 | 2 | 1 | 0 | 6/28/1983                             | Wisniewski, et al.  | 297 | 452 | 12/15/1980 |
| AAAAU 4 3 1 3 6 3 7 2/2/1982 Barley 297 284 11/13/1979  AAAAV 4 2 9 5 6 8 1 10/20/1981 Gregory 297 284 2/19/1980  AAAAW 4 1 8 2 5 3 3 1/8/1980 Arndt, et al. 297 284 12/26/1978  AAAAX 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAX 4 1 5 3 2 9 3 5/8/1979 Sheldon 297 284 9/6/1977  AAAAX 4 1 3 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAB 3 7 2 4 1 4 4 4/3/1973 Schuster 52 108 12/14/1970  AAAAAA 3 4 9 2 7 6 8 2/3/1970 Schuster, W. 52 98 4/10/1968  AAAAAA 3 7 8 9 0 0 8 4 1/20/1970 Schuster, W. 52 98 4/10/1968  AAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAA 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954  |      | AAAAS  | 4        | 3        | 5        | 4 | 7 | 0 | 9 | 10/19/1982                            | Schuster            | 297 | 284 | 6/22/1979  |
| AAAAW 4 1 8 2 5 3 3 1/8/1980 Arndt, et al: 297 284 2/19/1980  AAAAW 4 1 8 2 5 3 3 1/8/1980 Arndt, et al: 297 284 12/26/1978  AAAAX 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAY 4 1 5 3 2 9 3 5/8/1979 Sheldon 297 284 9/6/1977  AAAAZ 4 1 3 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAAB 3 7 2 4 1 4 4 4/3/1973 Schuster 52 108 12/14/1970  AAAAAAC 3 4 9 2 7 6 8 2/3/1970 Schuster, W. 52 98 4/10/1968  AAAAAAD 3 4 9 0 0 8 4 1/20/1970 Schuster, W. 5 351 1/22/1968  AAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAAC 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAAH 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954   |      | AAAAT  | 4        | 3        | 1        | 6 | 6 | 3 | 1 | 2/23/1982                             | Lenz, et al.        | 297 | 284 | 12/6/1979  |
| AAAAW 4 1 8 2 5 3 3 1/8/1980 Arndt, et al: 297 284 12/26/1978  AAAAX 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAAY 4 1 5 3 2 9 3 5/8/1979 Sheldon 297 284 9/6/1977  AAAAAZ 4 1 3 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAA 3 7 6 2 7 6 9 10/2/1973 Schuster 52 108 12/14/1970  AAAAAA 3 7 2 4 1 4 4 4/3/1973 Schuster 52 108 12/14/1970  AAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 2 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 2 3 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAA 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954  |      | AAAAU. | 4        | 3        | 1        | 3 | 6 | 3 | 7 | 2/2/1982                              | Barley              | 297 | 284 | 11/13/1979 |
| AAAAX 4 1 5 6 5 4 4 5/29/1979 Swenson, et al. 297 284 3/20/1978  AAAAY 4 1 5 3 2 9 3 5/8/1979 Sheldon 297 284 9/6/1977  AAAAAZ 4 1 3 6 5 7 7 1/30/1979 Borgersen 74 479 11/10/1976  AAAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAAB 3 7 2 4 1 4 4 4/3/1973 Schuster 52 108 12/14/1970  AAAAAAC 3 4 9 2 7 6 8 2/3/1970 Schuster, W. 52 98 4/10/1968  AAAAAAD 3 4 9 0 0 8 4 1/20/1970 Schuster, W. 5 351 1/22/1968  AAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAAF 2 9 4 2 6 5 1 6/28/1960 Binding, K.W. 155 131 11/12/1957  AAAAAAG 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAH 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954   |      | AAAAV  | 4        | 2        | 9        | 5 | 6 | 8 | 1 | 10/20/1981                            | Gregory             | 297 | 284 | 2/19/1980  |
| AAAAY       4       1       5       3       2       9       3       5/8/1979       Sheldon       297       284       9/6/1977         AAAAAZ       4       1       3       6       5       7       7       1/30/1979       Borgersen       74       479       11/10/1976         AAAAAA       3       7       6       2       7       6       9       10/2/1973       Poschl       297       284       12/16/1971         AAAAAB       3       7       2       4       1       4       4       4/3/1973       Schuster       52       108       12/14/1970         AAAAAC       3       4       9       2       7       6       8       2/3/1970       Schuster, W.       52       98       4/10/1968         AAAAAAD       3       4       9       0       0       8       4       1/20/1970       Schuster, W.       5       351       1/22/1968         AAAAAE       3       3       7       8       2       9       9       4/16/1968       Sandor, W.C.       297       284       7/5/1966         AAAAAAF       2       9       4       2       6       5  |      | AAAAW  | 4        | 1        | 8        | 2 | 5 | 3 | 3 | 1/8/1980                              | Amdt, et al.        | 297 | 284 | 12/26/1978 |
| AAAAAA 3 7 6 2 7 6 9 10/2/1973 Poschl 297 284 12/16/1971  AAAAAAB 3 7 6 2 7 6 9 10/2/1973 Schuster 52 108 12/14/1970  AAAAAAC 3 4 9 2 7 6 8 2/3/1970 Schuster, W. 52 98 4/10/1968  AAAAAA 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAF 2 9 4 2 6 5 1 6/28/1960 Binding, K.W. 155 131 11/12/1957  AAAAAG 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 6/30/1954  |      | AAAAX  | 4        | 1        | 5        | 6 | 5 | 4 | 4 | 5/29/1979                             | Swenson, et al.     | 297 | 284 | 3/20/1978  |
| AAAAAA   3   7   6   2   7   6   9   10/2/1973   Poschl   297   284   12/16/1971     AAAAAB   3   7   2   4   1   4   4/3/1973   Schuster   52   108   12/14/1970     AAAAAC   3   4   9   2   7   6   8   2/3/1970   Schuster, W.   52   98   4/10/1968     AAAAAD   3   4   9   0   0   8   4   1/20/1970   Schuster, W.   5   351   1/22/1968     AAAAAE   3   3   7   8   2   9   9   4/16/1968   Sandor, W.C.   297   284   7/5/1966     AAAAAF   2   9   4   2   6   5   1   6/28/1960   Binding, K.W.   155   131   11/12/1957     AAAAAG   2   8   4   3   1   9   5   7/15/1958   Barvaeus, A.E.A.   155   182   1/25/1956     AAAAAH   2   7   5   6   8   0   9   7/31/1956   Endresen, E.   155   182   6/30/1954  |      | AAAAY  | 4        | 1        | 5        | 3 | 2 | 9 | 3 | 5/8/1979                              | Sheldon             | 297 | 284 | 9/6/1977   |
| AAAAAB 3 7 2 4 1 4 4 4/3/1973 Schuster 52 108 12/14/1970  AAAAAAC 3 4 9 2 7 6 8 2/3/1970 Schuster, W. 52 98 4/10/1968  AAAAAAD 3 4 9 0 0 8 4 1/20/1970 Schuster, W. 5 351 1/22/1968  AAAAAB 3 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAF 2 9 4 2 6 5 1 6/28/1960 Binding, K.W. 155 131 11/12/1957  AAAAAG 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAH 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954   |      | AAAAZ  | 4        | 1        | 3        | 6 | 5 | 7 | 7 | 1/30/1979                             | Borgersen           | 74  | 479 | 11/10/1976 |
| AAAAAC       3       4       9       2       7       6       8       2/3/1970       Schuster, W.       52       98       4/10/1968         AAAAAD       3       4       9       0       0       8       4       1/20/1970       Schuster, W.       5       351       1/22/1968         AAAAAE       3       3       7       8       2       9       9       4/16/1968       Sandor, W.C.       297       284       7/5/1966         AAAAAF       2       9       4       2       6       5       1       6/28/1960       Binding, K.W.       155       131       11/12/1957         AAAAAG       2       8       4       3       1       9       5       7/15/1958       Barvaeus, A.E.A.       155       182       1/25/1956         AAAAAH       2       7       5       6       8       0       9       7/31/1956       Endresen, E.       155       182       6/30/1954  |      | AAAAA  | 3        | 7        | 6        | 2 | 7 | 6 | 9 | 10/2/1973                             | Poschl              | 297 | 284 | 12/16/1971 |
| AAAAAD       3       4       9       0       0       8       4       1/20/1970       Schuster, W.       5       351       1/22/1968         AAAAAE       3       3       7       8       2       9       9       4/16/1968       Sandor, W.C.       297       284       7/5/1966         AAAAAF       2       9       4       2       6       5       1       6/28/1960       Binding, K.W.       155       131       11/12/1957         AAAAAG       2       8       4       3       1       9       5       7/15/1958       Barvaeus, A.E.A.       155       182       1/25/1956         AAAAAH       2       7       5       6       8       0       9       7/31/1956       Endresen, E.       155       182       6/30/1954   |      | AAAAAB | 3        | 7        | 2        | 4 | 1 | 4 | 4 | 4/3/1973                              | Schuster            | 52  | 108 | 12/14/1970 |
| AAAAAE 3 3 7 8 2 9 9 4/16/1968 Sandor, W.C. 297 284 7/5/1966  AAAAAF 2 9 4 2 6 5 1 6/28/1960 Binding, K.W. 155 131 11/12/1957  AAAAAG 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAH 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954  |      | AAAAAC | 3        | 4        | 9        | 2 | 7 | 6 | 8 | 2/3/1970                              | Schuster, W.        | 52  | 98  | 4/10/1968  |
| AAAAAF 2 9 4 2 6 5 1 6/28/1960 Binding, K.W. 155 131 11/12/1957  AAAAAAG 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956  AAAAAH 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954   |      | AAAAAD | 3        | 4        | 9        | 0 | 0 | 8 | 4 | 1/20/1970                             |                     | 5   | 351 | 1/22/1968  |
| AAAAAG 2 8 4 3 1 9 5 7/15/1958 Barvaeus, A.E.A. 155 182 1/25/1956<br>AAAAAH 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954   |      | AAAAAE | 3        | 3        | 7        | 8 | 2 | 9 | 9 | 4/16/1968                             | Sandor, W.C.        | 297 | 284 | 7/5/1966   |
| AAAAAH 2 7 5 6 8 0 9 7/31/1956 Endresen, E. 155 182 6/30/1954  |      | AAAAAF | 2        | 9        | 4        | 2 | 6 | 5 | 1 | 6/28/1960                             | Binding, K.W.       | 155 | 131 | 11/12/1957 |
|  |      | AAAAAG | 2        | 8        | 4        | 3 | 1 | 9 | 5 | 7/15/1958                             | Barvaeus, A.E.A.    | 155 | 182 | 1/25/1956  |
| AAAAAI 1 1 8 2 8 5 4 5/9/1917 Poler, A.J. N/A N/A 5/10/1915  |      | AAAAAH | 2        | 7        | 5        | 6 | 8 | 0 | 9 | 7/31/1956                             | Endresen, E.        | 155 | 182 | 6/30/1954  |
|  | MICH | AAAAAI | 1        | 1        | 8        | 2 | 8 | 5 | 4 | 5/9/1917                              | Poler, A.J.         | N/A | N/A | 5/10/1915  |

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## 37 CFR 1.501 INFORMATION DISCLOSURE CITATION IN A PATENT

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